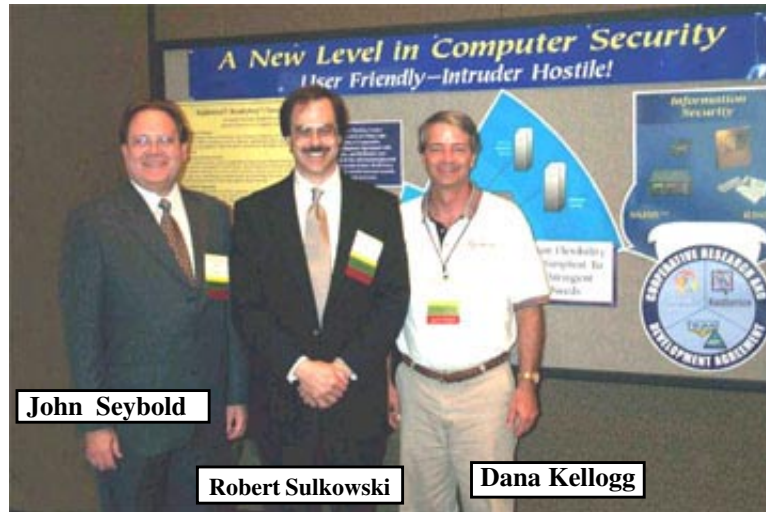




Year 2000 Awards



Computer Security

On May 10, 2000, a research team* from the Naval Air Warfare Center Weapons Division at China Lake, Market Central, Inc. and Radionics, Inc. received a prestigious Award for Excellence in Technology Transfer from the Federal Laboratory Consortium for the development of two computer security products.

The team is composed of

*Ross E. Seybold, Sydney R. Blowers,
Kenneth D. Wesche,*

- * **John Seybold (left-in photo),**
Stephen W. Bouthillier (deceased),
James J. Pinnell (former employee), of **Naval Air Warfare Center Weapons Division,***
- * **Robert V. Sulkowski (center-in photo)**
Brian L. Dodge of **Market Central, Inc.,** and
Randall P. Morse, consultant to **Market Central.***
- * **Dana C. Kellogg (right-in photo) of**
Radionics, Inc.*

To the government, private-sector businesses and financial institutions, the information that resides within a computer or server is often the organization's most valuable resource, its very lifeblood. The Navy teamed with two leading companies in the information/physical security field in 1997 under a Cooperative Research and Development Agreement, or CRADA. The purpose of the agreement was to investigate methods for achieving very high levels of computer security within a flexible system architecture adaptable to any computer-intensive industry.

The CRADA partners used a hardware approach to complement and extend – rather than duplicate – such widely used security techniques as encryption and

firewalls. The result of this cooperative effort was the development of two security products now marketed by the commercial partners – Readykey® Information Security System for Computers™ by Radionics and the SecureSwitch™ Information Security System (SSISS) by Market Central – as well as seven licensed inventions.

The systems developed under this CRADA use an access card and a code, or PIN number, issued to each user. The system can be configured to provide varying degrees of access. Access rights can range from physical entry into the computer facility only, to use of select computers and servers, to blanket access to an entire corporate system. The system maintains a detailed log of user access. If a user attempts to gain access to an unauthorized area, computer or server, the consequences can range from simple access denial to security alarm activation and armed response.

A unique aspect of the system is that until access authorization has been determined by the security system, the computers and servers are physically isolated by unique electronic switches. Under the CRADA, Market Central and the Navy co-designed and developed three computer-platform switches to control electrical power and network connections. Radionics provided the hardware/software expertise to interface the three switches with existing Radionics access-control products.

The CRADA provided a framework for the successful transfer of cutting-edge security technology to the private sector. Ultimately, this cooperative effort will result in a higher level of security throughout the information technology infrastructure, thereby benefiting industry, government, and consumers.